## IN THE CLAIMS:

Please amend the claims as follows. The claims are in the format as required by 35 C.F.R. § 1.121.

 (Previously Presented) A method of establishing a set of piconets comprising: generating a set of codes, wherein each code corresponds to a sequence of dwell times and bands, wherein the sequence includes at least one group of dwell times;

assigning codes to the piconets in the set of piconets, wherein:

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the unique code is a member of the set of codes; and

during a time span, any two different piconets in the set of piconets are capable of using one or more same bands for a collective time for each group of dwell times, no longer than the longest dwell time within such group of dwell times; and

substituting an extra band for an existing band, wherein before substituting, the unique codes do not correspond to the extra band.

- 2. (Original) The method of claim 1, wherein one or more numbers of the dwell times in the groups is one or more prime numbers.
- 3. (Original) The method of claim 2, wherein the one or more number of the dwell times in each group is seven.
- 4. (Original) The method of claim 3, wherein a number of different bands for the each group is seven.
- 5. (Original) The method of claim 3, wherein a number of different bands for the each group is six.
- 6. (Original) The method of claim 3, wherein a number of different bands for the each group is three.
- 7. Cancelled.

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- 8. (Original) The method of claim 1, further comprising changing a state of a band within at least one of the codes for at least one piconet from a first state to a second state, wherein: the first state is a designated state or an undesignated state; and the second state is the other of the designated state or the undesignated state.
- Cancelled.
- 10. (Original) The method of claim 1, wherein each of the bands has a frequency range of at least 400 MHz.
- 11. (Original) The method of claim 1, wherein the set of piconets is designed for a wireless communicating medium.
- 12. (Original) The method of claim 1, further comprising adding another piconet to the set of piconets, wherein the another piconet has a unique code compared to previously existing piconets within the set of piconets.
- (Currently Amended) A set of piconets comprising piconets, wherein:
   each piconet comprises at least one device;

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a sequence of dwell times and bands, wherein the sequence includes at least one group of dwell times, wherein in response to interference, an extra band is substituted for an existing band, wherein before substituting, the code does not correspond to the extra band; and

during a time span, any two different piconets in the set of piconets are capable of using one or more same bands for a collective time for each group of dwell times, no longer than the longest dwell time within such group of dwell times.

- 14. (Original) The set of piconets of claim 13, wherein one or more number of the dwell times in the groups is one or more prime numbers.
- 15. (Original) The set of piconets of claim 14, wherein the one or more number of the dwell times in each group is seven.

- 16. (Original) The set of piconets of claim 15, wherein a number of different bands for the each group is seven.
- 17. (Original) The set of piconets of claim 15, wherein a number of different bands for the each group is six.
- 18. (Original) The set of piconets of claim 15, wherein a number of different bands for the each group is three.
- Cancelled.
- 20. (Original) The set of piconets of claim 13, wherein each of the bands for each piconet is in a first state or a second state, wherein:

the first state is a designated state; and

the second state is an undesignated state.

- 21. (Original) The set of piconets of claim 13, wherein each of the bands has a frequency range of at least 400 MHz.
- 22. (Original) The set of piconets of claim 13, wherein the set of piconets is designed for a wireless communicating medium.
- 23. (Original) The set of piconets of claim 13, wherein a device, within a first piconet within the set of piconets, is capable of communicating simultaneously over at least two bands within the first piconet.
- 24. (Currently Amended) A set of piconets comprising a first piconet and a second piconet, wherein within the set of piconets:

each piconet comprises at least one device;

the first piconet has a first code corresponding to a first sequence of designated bands; and

the second piconet has a second code that corresponds to a second sequence of

designated bands, wherein the second code is unique from the first code; and at least one band is present in the first sequence that is not present in the second sequence, wherein in response to interference, an extra band is substituted for an existing band of the first sequence of designated bands or the second sequence of designated bands, wherein before substituting, the code does not correspond to the extra band.

25. (Original) The set of piconets of claim 24, wherein:

the first piconet is configured for a first group of bands and a second group of bands; and

the second piconet is configured for the first group of bands but not the second group of bands.

- 26. (Original) The set of piconets of claim 25, wherein at least one of the bands within the first group of bands is in an undesignated state.
- 27. (Original) The set of piconets of claim 25, wherein each of the first group of bands and the second group of bands comprise a prime number of bands.
- 28. (Previously Presented) The set of piconets of claim 24, wherein the first and second piconets correspond to the same bands or groups of bands.
- 29. (Previously Presented) A method of using a set of piconets comprising: changing a first band from a designated state to an undesignated state, so that a first piconet cannot communicate within the set of piconets using the first band, wherein:

the set of piconets comprises the first piconet;

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a sequence of dwell times and bands including the first band, wherein the sequence includes at least one group of dwell times; and

substituting an extra band for the first band, wherein before substituting, the unique codes do not correspond to the extra band.

30. (Original) The method of claim 29, further comprising transmitting data within the first piconet using a second band, wherein:

the unique code for the first piconet corresponds to the second band; the second band is in the designated state when transmitting is performed; and transmitting is performed after changing the first band from the designated state to the undesignated state.

- 31. (Original) The method of claim 30, wherein the data that would be transmitted using the first band, if the first band would be in the designated state, is transmitted using the second band.
- 32. (Original) The method of claim 31, further comprising changing the first band from the undesignated state to the designated state after transmitting the data.
- Cancelled
- 34. (Previously Presented) The method of claim 29, further comprising transmitting data within the first piconet using the extra band, wherein:

the unique code for the first piconet corresponds to the extra band; the extra band is in the designated state when transmitting is performed; and transmitting is performed after substituting the extra band for the first band.

- 35. (Original) The method of claim 29, further comprising communicating simultaneously over at least two bands using a device within the first piconet.
- 36. (Original) The method of claim 29, further comprising adding another piconet to the set of piconets, wherein the another piconet has its own unique code compared to the unique codes for previously existing piconets within the set of piconets.
- 37. (Original) The method of claim 29, wherein a number of the dwell times in each group is seven.

- 38. (Original) The method of claim 37, wherein a number of different bands for the each group is seven.
- 39. (Original) The method of claim 37, wherein a number of different bands for the each group is six.
- 40. (Original) The method of claim 37, wherein a number of different bands for the each group is three.
- 41. (Previously Presented) A method of using a set of piconets comprising: changing a first band from a designated state to an undesignated state, wherein:

the set of piconets comprises the first piconet;

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a sequence of dwell times and bands including the first band, wherein the sequence includes at least one group of dwell times; and

substituting an extra band for the first band, wherein before substituting, the unique codes do not correspond to the extra band.

42. (Original) The method of claim 41, further comprising transmitting data within the first piconet using a second band, wherein:

the unique code for the first piconet corresponds to the second band; the second band is in the designated state when transmitting is performed; and transmitting is performed after changing the first band from the designated state to the undesignated state.

- 43. (Original) The method of claim 42, wherein the data that would be transmitted using the first band, if the first band would be in the designated state, is transmitted using the second band.
- 44. (Original) The method of claim 41, further comprising changing the first band from the undesignated state to the designated state after transmitting the data.

- 45. Cancelled.
- 46. (Previously Presented) The method of claim 41, further comprising transmitting data within the first piconet using the extra band, wherein: the unique code for the first piconet corresponds to the extra band; the first band is in the undesignated state when transmitting is performed; and transmitting is performed after substituting the extra band for the first band.
- 47. (Original) The method of claim 41, further comprising communicating simultaneously over at least two bands using a device within the first piconet that is within the set of piconets.
- 48. (Original) The method of claim 41, further comprising adding another piconet to the set of piconets, wherein the another piconet has its own unique code compared to the unique codes for previously existing piconets within the set of piconets.
- 49. (Original) The method of claim 41, wherein a number of the dwell times in each group is seven.
- 50. (Original) The method of claim 49, wherein a number of different bands for the each group is seven.
- 51. (Original) The method of claim 49, wherein a number of different bands for the each group is six.
- 52. (Original) The method of claim 49, wherein a number of different bands for the each group is three.
- 53. (Previously Presented) A method of using a set of piconets comprising:

  changing a first band from an undesignated state to a designated state, wherein:

  the set of piconets comprises the first piconet;

  each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a

sequence of dwell times and bands including the first band, wherein the sequence includes at least one group of dwell times; and substituting an extra band for the first band, wherein before substituting, the unique codes do not correspond to the extra band.

54. (Original) The method of claim 53, further comprising transmitting data within the first piconet using the first band, wherein:

the unique code for the first piconet corresponds to a second band;

the second band is in the undesignated state when transmitting is performed; and transmitting is performed after changing the first band from the undesignated state to the designated state.

- 55. (Original) The method of claim 54, wherein the data that would be transmitted using the second band, if the second band would be in the designated state, is transmitted using the first band.
- 56. (Original) The method of claim 53, further comprising changing the first band from the designated state to the undesignated state after transmitting the data.
- 57. Cancelled.
- 58. (Previously Presented) The method of claim 53, further comprising transmitting data within the first piconet using the extra band, wherein:

the unique code for the first piconet corresponds to a second band; the second band is in the undesignated state when transmitting is performed; and transmitting is performed after substituting the extra band for the second band.

- 59. (Original) The method of claim 53, further comprising communicating simultaneously over at least two bands using a device within the first piconet that is within the set of piconets.
- 60. (Original) The method of claim 53, further comprising adding another piconet to the set of piconets, wherein the another piconet has its own unique code compared to the unique codes for previously existing piconets within the set of piconets.

- 61. (Original) The method of claim 53, wherein a number of the dwell times in each group is seven.
- 62. (Original) The method of claim 61, wherein a number of different bands for the each group is seven.
- 63. (Original) The method of claim 61, wherein a number of different bands for the each group is six.
- 64. (Original) The method of claim 61, wherein a number of different bands for the each group is three.
- 65. (Currently Amended) A computer readable <u>storage</u> medium storing computer executable instructions executable for establishing a set of piconets, the computer executable instructions-comprising:

an instruction for generating a set of codes, wherein each code corresponds to a sequence of dwell times and bands, wherein the sequence includes at least one group of dwell times;

an instruction for assigning codes to the piconets in the set of piconets, wherein:
each piconet in the set of piconets has a unique code compared to the other piconets in the set
of piconets, wherein the unique code is a member of the set of codes; and
during a time span, any two different piconets in the set of piconets are capable of using one or
more same bands for a collective time for each group of dwell times, no longer than the longest
dwell time within such group of dwell times; and

an instruction for substituting an extra band for an existing band, wherein before executing the instruction for substituting, the unique codes do not correspond to the extra band.

- 66. (Currently Amended) The computer readable <u>storage</u> medium of claim 65, wherein one or more numbers of the dwell times in the groups is one or more prime numbers.
- 67. (Currently Amended) The computer readable <u>storage</u> medium of claim 66, wherein the one or more number of the dwell times in each group is seven.

- 68. (Currently Amended) The computer readable <u>storage</u> medium of claim 67, wherein a number of different bands for the each group is seven.
- 69. (Currently Amended) The computer readable <u>storage</u> medium of claim 67, wherein a number of different bands for the each group is six.
- 70. (Currently Amended) The computer readable <u>storage</u> medium of claim 67, wherein a number of different bands for the each group is three.
- 71. Cancelled.
- 72. (Currently Amended) The computer readable <u>storage</u> medium of claim 65, wherein the computer program further comprises an instruction for changing a state of a band within at least one of the codes for at least one piconet from a first state to a second state, wherein:

the first state is a designated state or an undesignated state; and the second state is the other of the designated state or the undesignated state.

- 73. Cancelled.
- 74. (Currently Amended) The computer readable <u>storage</u> medium of claim 65, wherein each of the bands has a frequency range of at least 400 MHz.
- 75. (Currently Amended) The computer readable <u>storage</u> medium of claim 65, wherein the set of piconets is designed for a wireless communicating medium.
- 76. (Currently Amended) The computer readable <u>storage</u> medium of claim 65, wherein the computer program further comprising an instruction for adding another piconet to the set of piconets, wherein the another piconet has a unique code compared to previously existing piconets within the set of piconets.

77. (Currently Amended) A computer readable <u>storage</u> medium storing computer executable instructions executable for using a set of piconets, the computer executable instructions comprising:

an instruction for changing a first band from a designated state to an undesignated state, so that the first piconet cannot communicate within a set of piconets using the first band, wherein:

the set of piconets comprises the first piconet;

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a sequence of dwell times and bands including the first band, wherein the sequence includes at least one group of dwell times; and

for the first piconet, the first band is in a designated state before executing the instruction for changing; and

an instruction for substituting an extra band for the first band, wherein before executing the instruction for substituting, the unique codes do not correspond to the extra band.

78. (Currently Amended) The computer readable <u>storage</u> medium of claim 77, wherein the computer program further comprises an instruction for transmitting data within the first piconet using a second band, wherein:

the unique code for the first piconet corresponds to the second band;
the second band is in the designated state when transmitting is performed; and
the instruction for transmitting is executed after the instruction for changing the first
band from the designated state to the undesignated state is executed.

- 79. (Currently Amended) The computer readable <u>storage</u> medium of claim 78, wherein the data that would be transmitted using the first band, if the first band would be in the designated state, is capable of being transmitted using the second band when the instruction for transmitting is executed.
- 80. (Currently Amended) The computer readable storage medium of claim 78, wherein the computer further comprises an instruction for changing the first band from the undesignated state to the designated state after executing the instruction for transmitting the data.

- 81. Cancelled.
- 82. (Currently Amended) The computer readable <u>storage</u> medium of claim 77, wherein the computer program further comprises an instruction for transmitting data within the first piconet using the extra band, wherein:

the unique code for the first piconet corresponds to the extra band; and the instruction for transmitting is executed after the instruction for substituting is executed.

- 83. (Currently Amended) The computer readable <u>storage</u> medium of claim 77, wherein the computer program further comprises an instruction for adding another piconet to the set of piconets, wherein the another piconet has its own unique code compared to the unique codes for previously existing piconets within the set of piconets.
- 84. (Currently Amended) The computer readable <u>storage</u> medium of claim 77, wherein one or more numbers of the dwell times in the groups is one or more prime numbers.
- 85. (Currently Amended) The computer readable <u>storage</u> medium of claim 84, wherein a number of different bands for the each group is seven.
- 86. (Currently Amended) The computer readable <u>storage</u> medium of claim 84, wherein a number of different bands for the each group is six.
- 87. (Currently Amended) The computer readable <u>storage</u> medium of claim 84, wherein a number of different bands for the each group is three.

88. (Currently Amended) A computer readable <u>storage</u> medium storing computer executable instructions executable for using a set of piconets, the computer executable instructions comprising:

an instruction for changing a first band from an undesignated state to a designated state, so that the first piconet can communicate within a set of piconets using the first band, wherein:

the set of piconets comprises the first piconet;

each piconet in the set of piconets has a unique code compared to the other piconets in the set of piconets, wherein the each unique code corresponds to a sequence of dwell times and bands including the first band, wherein the sequence includes at least one group of dwell times; and

for the first piconet, the first band is in an undesignated state before executing the instruction for changing; and

an instruction for substituting an extra band for the first band, wherein before executing the instruction for substituting, the unique codes do not correspond to the extra band.

89. (Currently Amended) The computer readable <u>storage</u> medium of claim 88, wherein the computer program further comprises an instruction for transmitting data within the first piconet using the first band, wherein:

the unique code for the first piconet corresponds to a second band;
the second band is in the undesignated state when transmitting is performed; and
the instruction for transmitting is performed after the instruction for changing the first
band from the undesignated state to the designated state is executed.

- 90. (Currently Amended) The computer readable <u>storage</u> medium of claim 89, wherein the data that would be transmitted using the second band, if the second band would be in the designated state, is transmitted using the first band when the instruction for transmitting is executed.
- 91. (Currently Amended) The computer readable <u>storage</u> medium of claim 89, wherein the computer program further comprises an instruction for changing the first band from the

designated state to the undesignated state after transmitting the data.

- 92. Cancelled.
- 93. (Currently Amended) The computer readable <u>storage</u> medium of claim 88, wherein the computer program further comprises transmitting data within the first piconet using the second band, wherein:

the unique code for the first piconet corresponds to the extra band; the second band is in the undesignated state when transmitting is performed; and transmitting is performed after the instruction for substituting is executed.

- 94. (Currently Amended) The computer readable <u>storage</u> medium of claim 88, wherein the computer program further comprises an instruction for adding another piconet to the set of piconets, wherein the another piconet has its own unique code compared to the unique codes for previously existing piconets within the set of piconets.
- 95. (Currently Amended) The computer readable <u>storage</u> medium of claim 88, wherein a number of the dwell times in each group is seven.
- 96. (Currently Amended) The computer readable <u>storage</u> medium of claim 95, wherein a number of different bands is seven.
- 97. (Currently Amended) The computer readable <u>storage</u> medium of claim 95, wherein a number of different bands is six.
- 98. (Currently Amended) The computer readable <u>storage</u> medium of claim 95, wherein a number of different bands is three.
- 99. (Currently Amended) A piconet comprising <u>at least one device and a code that</u> corresponds to the utilization of different bands during a time span of seven dwell times, wherein in response to interference an extra band is substituted for an existing band, wherein before substituting, the code does not correspond to the utilization of the extra band.

- 100. (Original) The piconet of claim 99, wherein a number of the different bands is seven.
- 101. (Original) The piconet of claim 99, wherein a number of the different bands is six.
- 102. (Original) The piconet of claim 99, wherein a number of the different bands is three.
- 103. (Original) The piconet of claim 99, further comprising at least two devices wherein each of the devices is capable of communicating to each other using the piconet.
- 104. (Previously Presented) A method of using a piconet comprising: assigning a code to a first device within the piconet,

wherein the code corresponds to the utilization of different bands during a time span of seven dwell times;

communicating using the first device to at least one other device using the piconet; and substituting an extra band for an existing band, wherein before substituting, the code does not correspond to the extra band.

- 105. (Original) The method of claim 104, wherein a number of the different bands is seven.
- 106. (Original) The method of claim 104, wherein a number of the different bands is six.
- 107. (Original) The method of claim 104, wherein a number of the different bands is three.
- 108. (Original) The method of claim 104, further comprising changing a state of a band for at least one of the dwell times from a first state to a second state, wherein:

the first state is a designated state or an undesignated state; and the second state is the other of the designated state or the undesignated state.

- 109. Cancelled.
- 110. (Original) The method of claim 104, wherein communicating comprises communicating simultaneously over at least two bands using the first device within the piconet.

- 111. (Original) The method of claim 104, wherein each of the bands has a frequency range of at least 400 MHz.
- 112. (Original) The method of claim 104, wherein communicating is performed using a wireless communicating medium.
- 113. (Original) The method of claim 104, further comprising adding another device to the piconet, wherein adding the another device comprises assigning the code to the another device.